

What is Claimed is:

1. A roller member comprising a metallic core roller and an unshrinkable sleeve which is heat-welded onto the surface of the roller, which sleeve is formed from an elastomer material and has a Young's modulus of 120-200 MPa.

2. A roller member according to claim 1, wherein the unshrinkable sleeve is formed from a material selected from the group of polyamides, polyamide elastomers, fluorine-containing polymer compounds, and fluorine-containing elastomers.

3. A roller member according to claim 1, wherein the welding force between the core roller and the unshrinkable sleeve is 0.1 kg/cm or more.

4. A roller member according to claim 1, wherein the unshrinkable sleeve has a surface resistivity of  $10^6$  to  $10^{12}$   $\Omega/\square$ .

5. A roller member according to claim 1, wherein the unshrinkable sleeve has a surface roughness (Rz) of 5  $\mu\text{m}$  or less.

6. A roller member according to claim 1, wherein the unshrinkable sleeve has a thickness of 30-200  $\mu\text{m}$ .

7. A roller member according to claim 1, wherein the unshrinkable sleeve has an inner diameter smaller than the outer diameter of the core roller.